

Det ding 187/ 2 Cerei pour La Touringa, Hamise" [Pamy C.L. My 19 1871) less Granding The N22 heads not woolly was i flower in February. Dereus lanung, nosans Haur grown with last not so commen not used for herzes, more branching, typs of branch very worly \_\_ flowing later than M. 1. only vemant, of ald flowers found it belowers.

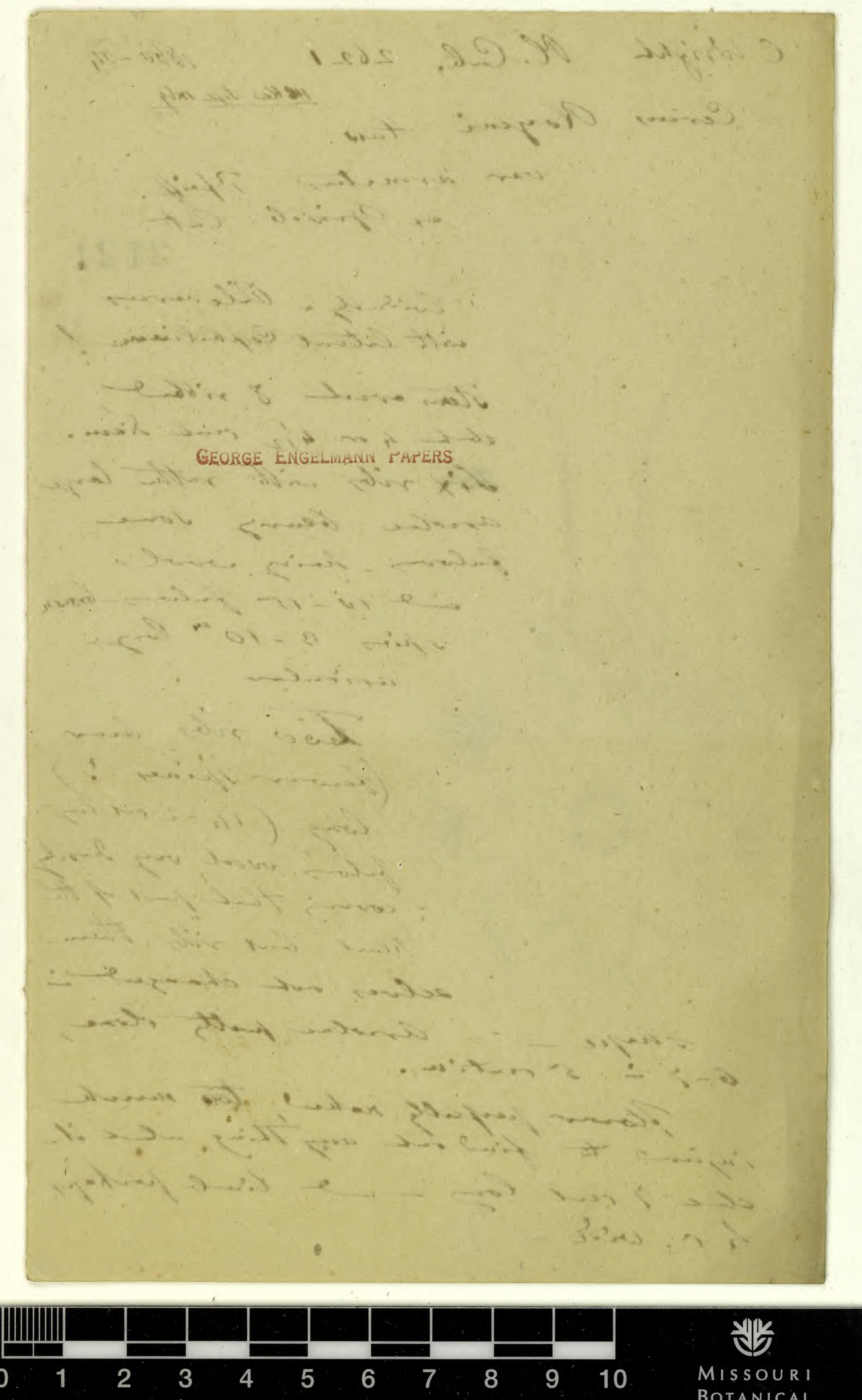
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A. Louis October 23.1871 D'I Gangelinaan Eys Tress Cessociation will be held to morrow at 3 o'cl. I? M. Thean fail sevet to altered. Hery bruis the contract of the same of th The state of the s MISSOURI

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BOTANICAL GARDEN Chright Pl. Cal. 2621
1860-64
Cerens Of Marie 11 Cereus Royeni Haw. var armeter, Tfif. Evidelly a Oblovery with latent Cephiliane. stem aveil 8 nibber abet 4 on 4/2 cent l'ann. The with with lange arrolae beany some Julion hing wool and 10-15 fuller - brown spin 3-10" long ariala Los nos bean (fewer spiner?) long (1/2-2 milly) Jelon wood very husely covering that fort Jelan but with themselves not change ? shape - - andre putty done, 6-7 - 5 mt. in. injund to find out any Thing all it de 7 met long - a limb parkage a. and MISSOURI

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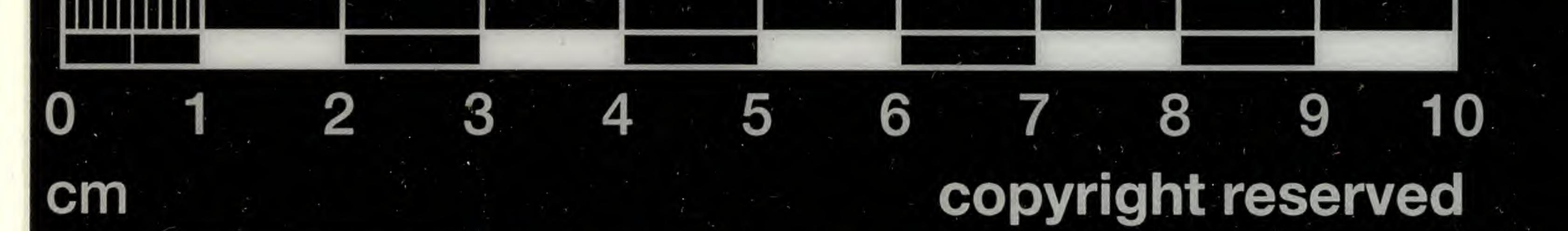


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BOTANICAL GARDEN 1 Ken Sopt 1869 (1872) Cer. Birginis . Haw., But May. 59. 3125 9-10 angel. ets sifeel Lyh - 1/2-2 ilel Siz Jungy Grown acrimen spins H: 6 custog 4 - wide ovary figures without any soules - petet oute romalend, short (9 - Ht figur) shorter That way names sept -Tyle exect she, 7 mg end Shits vays of stigue The plat com for Grenada appelly a Tilorer flows) 一直 一种

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44 [337] Plants of the Rocky Mountains—Supplement III.

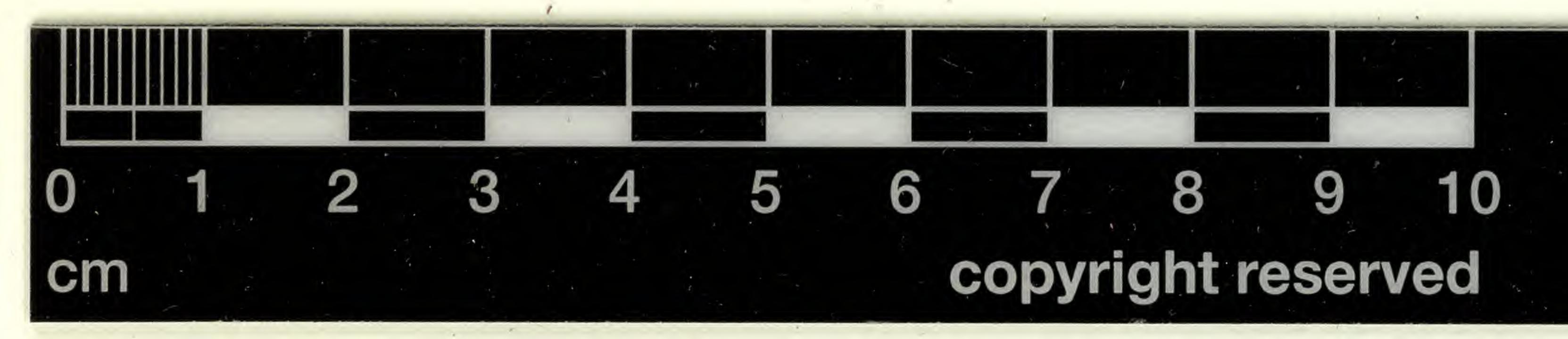
—This is apparently the commonest species and of widest range west of the Rocky Mountains, extending from Russian America to Southern California. The name given by Bongard is much the earliest, but not a good one, being founded upon what, I believe, is only a northern form of Bentham's C. hispida (a later and scarcely more appropriate name), with a less developed corolla. The length of the galea appears to be subject to variation in this species, as in C. pallida, and the calyx-segments still more so. To the present species may be referred: C. coccinea, Lindl. Bot. Reg. t. 1136 (non Spreng.), which, as its calyx-segments are described as being dilated and retuse, Mr. Bentham should rather have referred to his C. Douglasii. Euchroma angustifolia and E. Bradburii, Nutt.! in Jour. Acad. Philad. 7, p. 44, 47 (1834), both hirsute forms with deeply cleft and narrow calyx-segments. Castilleia hispida, Benth. in Hook. Fl. Bor. Am. & in DC. Prodr., 10, p. 532. C. Douglasii, Benth. in DC. l. c. p. 530; the commoner form, with oblong or more dilated and slightly lobed or cleft calyx-segments. C. desertorum, Geyer in Hook. Kew Jour. Bot. 5, p. 258, which is just Nuttall's E. angustifolia, but with partly yellow bracts. E. macrocalyx, E. villosa, E. laciniata, and E. viscosa, Nutt. in herb. Acad. Philad.

C. PALLIDA, Kunth. Inferne sæpius glabra vel glabrata, caule versus apicem calycibusque villosis: folia inferiora sæpissime integra (e forma lineari ad ovato-lanceolatam), floralia vulgo pl. m. incisa vel laciniata et albido-colorata: calycis segmenta bifida seu biloba: galea aut breviuscula aut elongata.—The mest porthern species and extending round the world on

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## Plants of the Rocky Mountains—Supplement III. [336] 43

C. TENUIFLORA, Benth., Pl. Hartw. No. 191, as Bentham intimates, should probably include C. longiflora, Kunze, and C. canescens, Benth., (which is Gregg's No. 434, 610, and Coulter's No. 1354), all from Mexico.

C. Orizabæ I have not seen, unless Coulter's No. 1352 and 1353 belong to it.

C. FISSIFOLIA, Linn. f. (No. 835, coll. Venezuel. Fendler). To this Weddell refers all the five other South American species of this section, including even C. integrifolia, Linn. f.

C. LAXA, Gray in Bot. Mex. Bound., p. 119, of Arizona (coll. C. Wright, No. 1490), has a broader calyx and corolla than any of its allies, the former very thin-membranaceous, colored, and with obtuse teeth, the galea slightly falcate; the leaves thin and not dilated at the insertion.

§ 2. EUCHROMA (incl. Callichroma). Calyx antice et postice fissus,

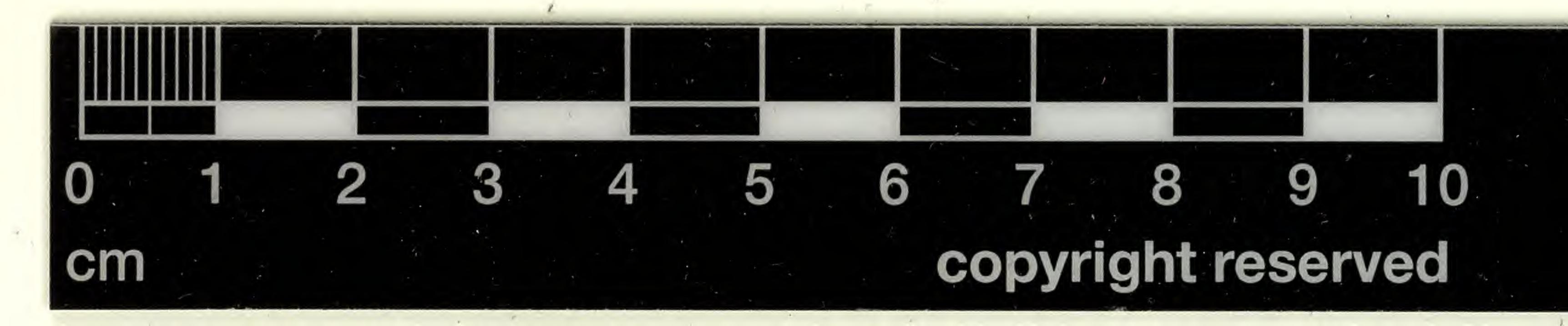
segmentis integris emarginatis vel bifidis.

I have nothing to say of the six Mexican and South American species in the Prodromus. The proper North American ones I understand as follows:

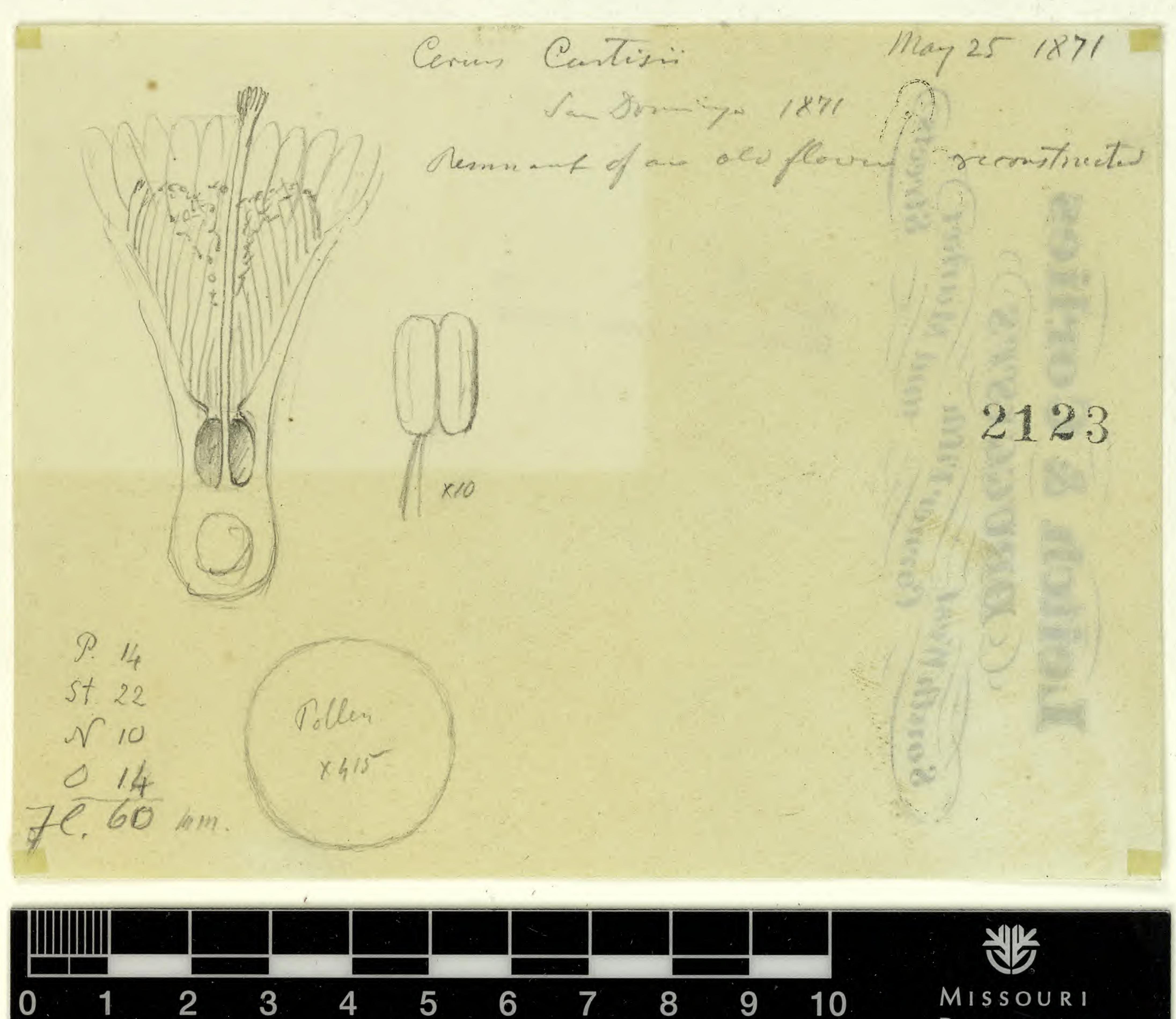
## \* Radice annua vel bienni.

## - Integrifoliæ.

C. AFFINIS, Hook. & Arn. Folia lineari seu lanceolato-attenuata, floralia raro trifida: flores pl. m. pedicellati: calyx usque ad medium bifidus, segmentis angustic saepius bifine vol emarcinatio: calea elongata fol ata:

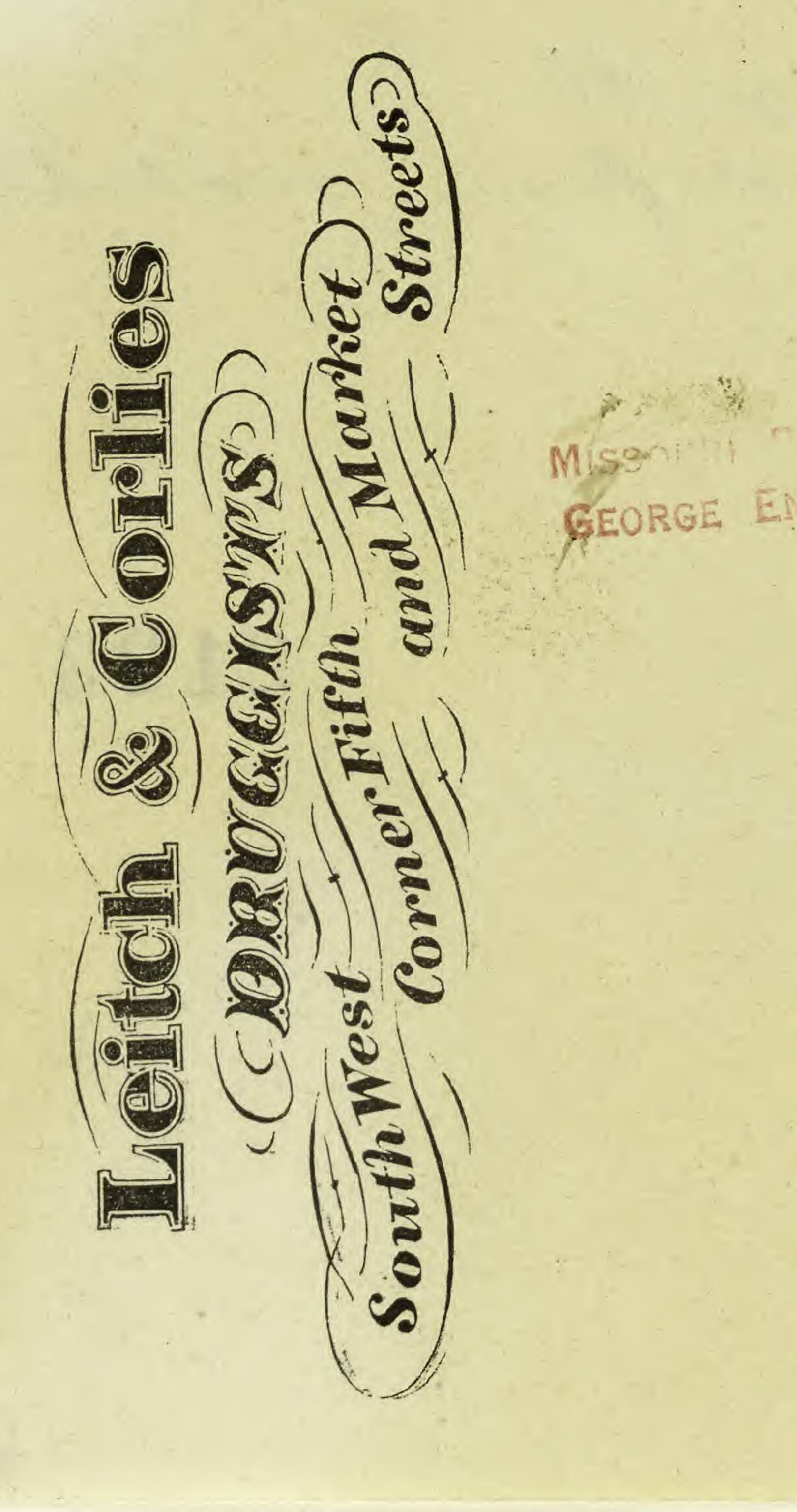




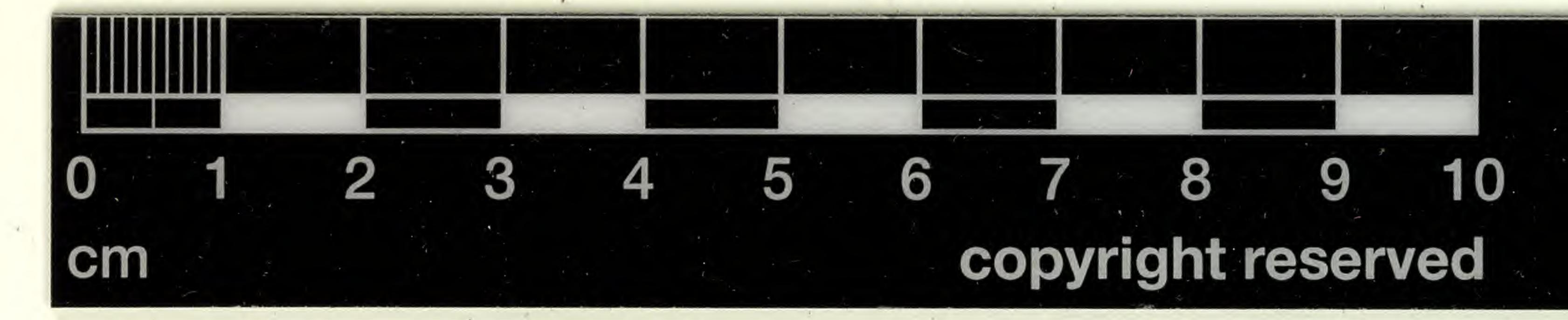


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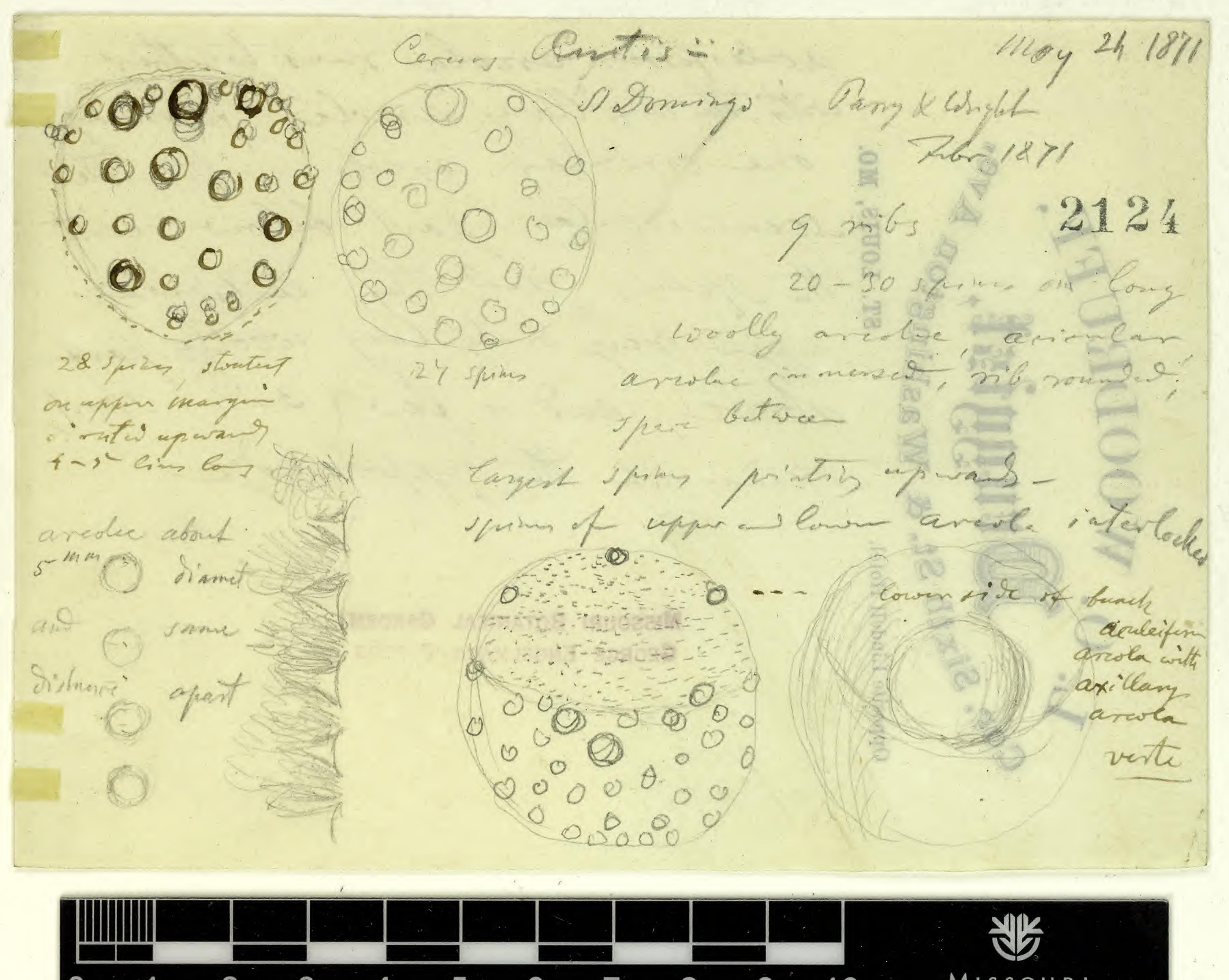
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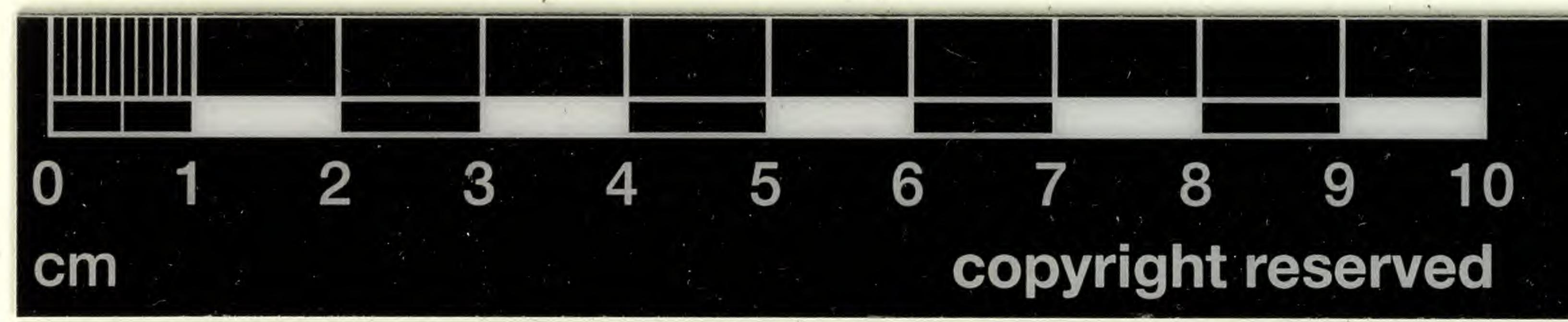




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cm

aculei ferous arcola mins to gether. with the cax ellary anola forming. i one orinlar arole swift The Bi Scenicivoular part below with MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS



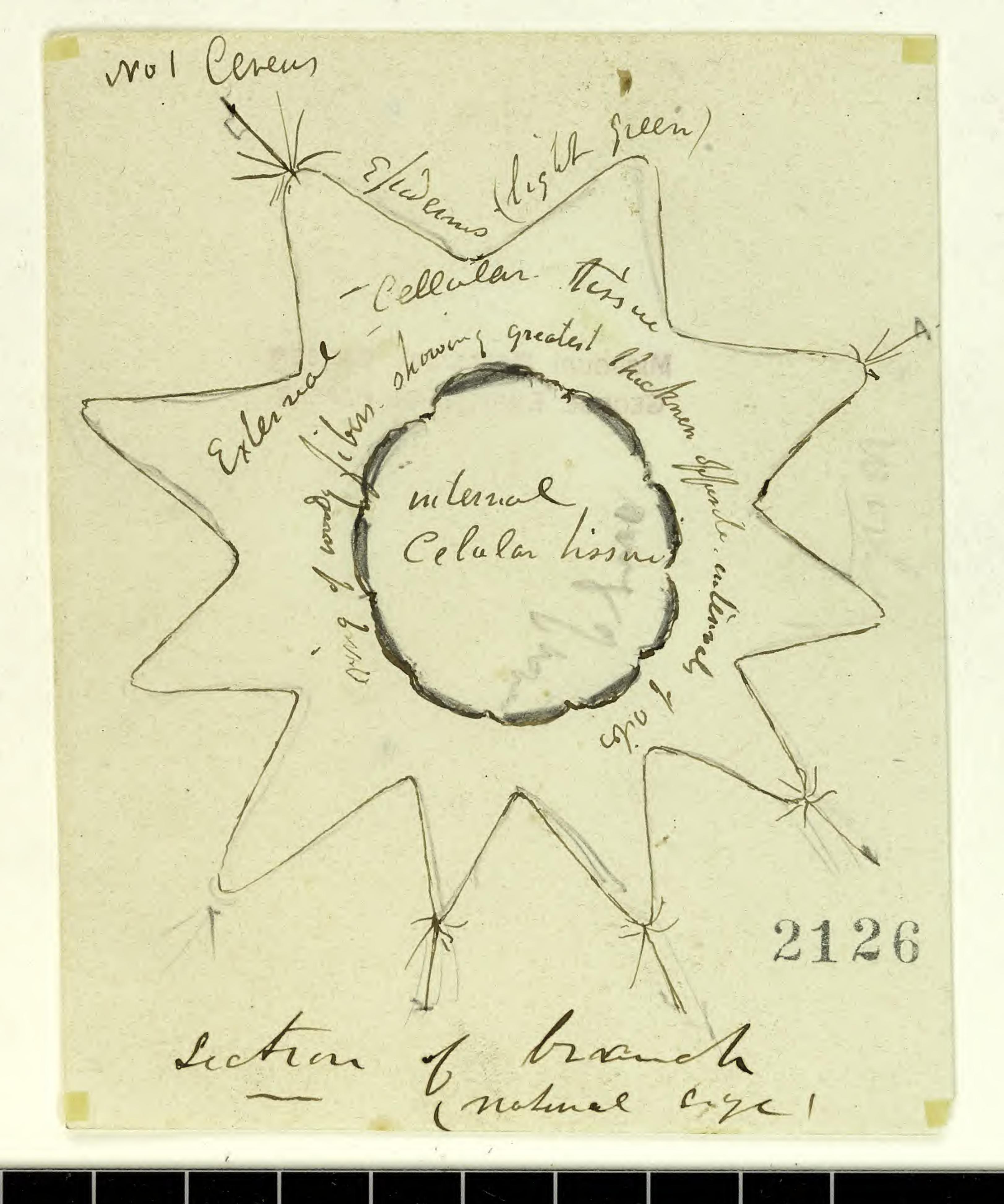


Cereus No 1 2125 height 25-12 Clavest Steering anough bare 25 malin Mai boundles 7. and the special special

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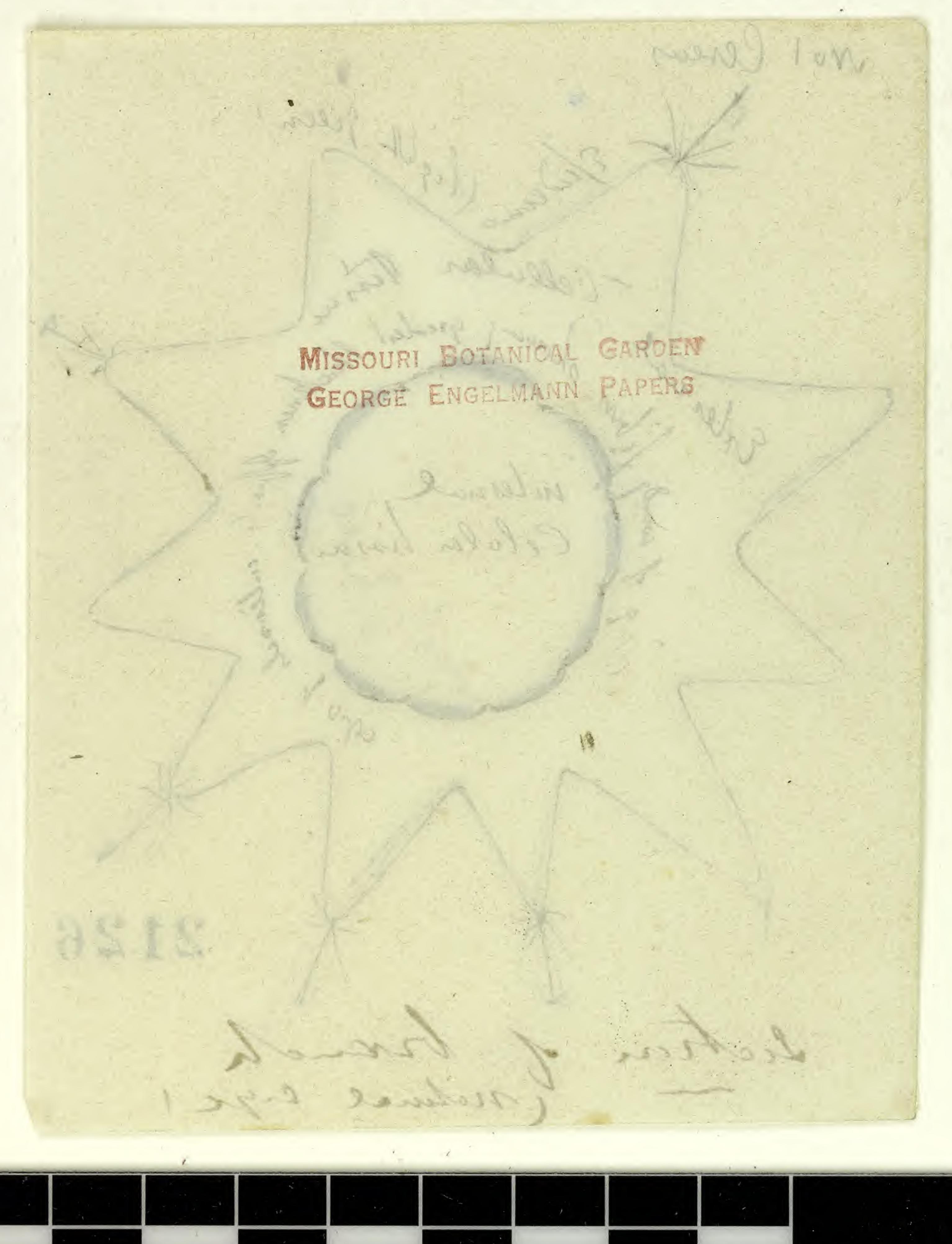
Speam in (by. Tru) the of lage branch å poper bry - I love brand a jang, frang branch. remain of old flewer

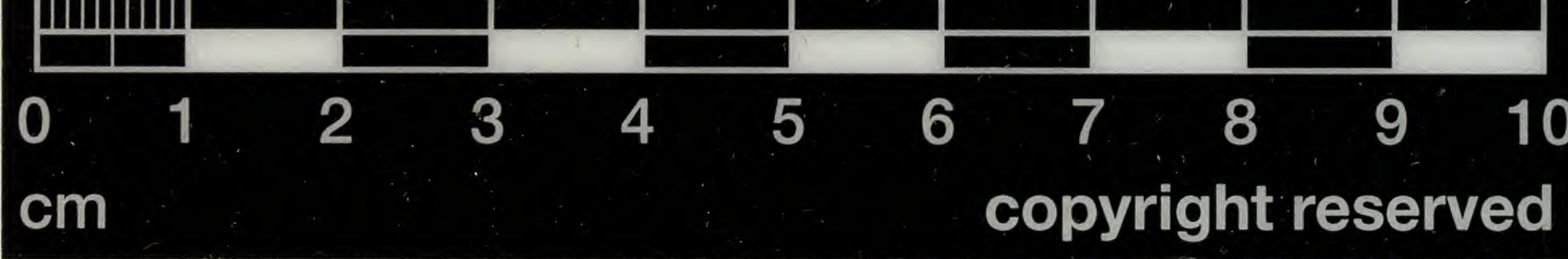
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(Percens Cetatisti Reifica #1 flatik & otto i lit. Pilorereres \_ Salue # 8. 1849 J. 183 (and earlier see Forst.)
Cer Carney hoses How (Carthin) to Dath probly Angeric florrows & Sweety's below the Thotal the common hedgeplant of Formings (Cer. 21 187) but growing with it - branking, sometimes 25 feet high, at lan 25 inches one feren - 5-10 mille, using & withen . Alarge openime had 7 main branches & 20 bunklet all the Allolae on the younger part are long worlder and it appears that the 20-30 acritales hornedone Spright arrivalor unagearl and irregular spikes are busied with work and the arester, directan dent s'alle en déaueter are about the same Islaure from our another - pretty close, 2 that tte whole edge of the nils seems white evolly. When an anola is going to produce an axillary bed, The two soalesies oninany floriting Her Cover semileenan part Gears The spines and the upper lembine long-woolly part bearing a few spines at the upper edge producer in its contre the feed. In the typical Piloceni this seems to be the same in the the assisted form of the spines and offen a closer approximation of the Greolie ad of the not themselves. A meloractus The same with the feether addition of The solution of the nib-anagement ento a freezeway very compound phyllolacher order. In Operation the same takes place always man n

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Rev. Millianne G. Eliot 1841 La Samiannual tupes to date MISSATING BOTTON PAPERS. MISSOURI BOTANICAL copyright reserved GARDEN

Cerci 21.68 Notes on Cartarea Dyck Ay 185% Tilorerous Celsianus and Tisenilis seem so much alike that I can not ditingensh then P. Curtisii is in flower & fait, copy if should he a Pilo revens I ran not see, a little lax wool is developed on the floriferous arcola - It is another proof of the imposer bility to chamaterize this Jenny a I to retain it. The flower is 2 inch, or 2/2 long few scales on Ovary & Soube hetal very numeron & shoft

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Gloreren, Certisi i vez similar to Peloc. nignian - flow almost ital but naked spare much larger, al ovar HHI cavity quit dyressed (constantly??) Con. Centrisi & Cer nignica, [ both Pilorerie fite Selm) havronly 1-3 scales on overy upper most septs much larger then the short small broadly oval rounded very numerous 1200 MISSOURI BOTANICAL F

0 1 2 3 4 5 6 7 8 9 10

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Output

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Dilovereur jubatus Selen In the intereste man it is difficult to say whether the wool is (as in fosseletter) constituted alv pninipelly en entirely by a form of vadel spires (transition to their in Celeboratus piliferes lasi Cizeni a Ceh-horactus pilifern, Elles. 2120 Piloverens and allied Cerei mag herkaps be chamiterize by flowers origination for a ogular preformed floriferous areola I Farifer parts of plat 2 for iterile Con the lending to propagate change the aspect of the the plat, or i a change it the oppearance of the parts precedes fexue propagation ) and semain.
So after freship their of setting. a regular perist capbela. × Termine XX Cotone 6 irrigulan, pensett on mercla de de sont surveure flower (com floriferon aveoler Flowers of a & 6 what, thelen- inforzed, lønde expertes og con recent, i arenved eft floresceure in wettering small Brang & fit soly - scaler Valued neke on with absendment short wood, white cows the MISSOURI BOTANICAL

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ause of long Alorse wool ( Hoppenstealin) I florifers not district from sterile part of plant (Pélocerei cerésformes) borben C. edrlis - purhaps C. giganting to. propagsall on mort lange Ceve. ?

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the Henderf Pain 3/4 69 Filorereus Houletiann woll buncher latent here at there more model on top . It does not seem as if the springs themselver, on the with were allered in any way. Hower I purlifin here Robertes Soutenteini Weber un a your onginelpland, brought home by water, new spring gellow; nen wool comes out for old a reolec when they are going to Cloom, or Hather right above Them I = areolie of Echonomicon other Better of Mani Clavis - The axil ?? A there a Fribe of Ceva with regularly forme fleriferon aveolve \_ to other Vilorere: zung belong and all of alach mag Moone, senounded by a tomenteur or Congeror shorter wool ? That woolly bese of my flower of C. ed lin may be jært their very thing! Vilorereus possulating two feet high. not very much talquality long oval or obling ansolve 18 miller rentre spide 1 offich long edge of artole beset with long capillan or we silly brother when apparently constitute all the book there is \_ or is the flowering plans more woolle a d'éférent? Compare P. senily here also the not flowing arcolar bean There andly haven, Jeans old new spines and new silky briskly make their appearance just above the old ones! MISSOURI

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